

OXC - 1227  
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13 January 1961

MEMORANDUM FOR THE RECORD

SUBJECT : A-12 Range Computations

25X1A

1. In reply to a request for information [ ] 6303), Mr. C. L. Johnson has supplied the following range data:

A. To reach an alternate that is 300 miles from the point of missed refueling, the range capability of the A-12 is reduced 600 miles.

B. If the alternate airfield is 600 miles away, the range potential is reduced 1,200 miles. Mr. Johnson stated that complete information to compute optimum subsonic cruise profiles is not available. These figures are predicated on cruising at 35,000 feet from the point of missed refueling to the landing base.

2. In the situation of 1(A) above, the total range of 4,000 miles would be reduced to 3,400 miles. The distance to the alternate must be subtracted from this range figure to find the useful radius of 1,550 nautical miles. If the refueling is accomplished outside an arbitrary 200 mile radar net, there remains a penetration radius of 1,350 miles.

3. Similar computations for an alternate 600 miles away, give a penetration radius of 900 miles over the land mass.

4. If the refueling is accomplished at a point to permit the climb to be performed outside the radar net, each effective radius must be reduced 200 miles.

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